

[REDACTED]

HEALTH CARE COST EVALUATION
OF:

[REDACTED]

PREPARED FOR:

[REDACTED]

Attorney at Law

SUBMITTED BY:

[REDACTED]

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PURPOSE OF REPORT

The purpose of this report is to outline the health care needs of [REDACTED]. [REDACTED] date of birth is May 3, 2001 and [REDACTED] is almost 5 years old. [REDACTED] medical diagnoses include the following:

- Cerebral palsy
- Spastic Quadriplegia
- Developmental Delays
- Non-verbal
- Microcephaly

Outlined in this evaluation will be aspects of "normal" development, as compared to [REDACTED] developmental delays. Special therapy, schooling, home care and other health care attention, that [REDACTED] should have access to throughout his life span, will also be addressed in this evaluation. The information for this report was obtained from the following sources:

- Information received from [REDACTED] and [REDACTED] parents.
- Observation and interaction with [REDACTED].
- Review of a report by [REDACTED] dated February 20, 2006.
- Review of the medical records and bills and therapy records of [REDACTED]

DEVELOPMENTAL STATUS

██████████ is a 4 year old little boy, who suffers from multiple physical deficits. ██████████ is delayed in performing, or has not been able to perform, the simple tasks of development. He has required physical assistance and adaptive devices for him to continue to develop.

Due to his ongoing disabilities, ██████████ is unable to and will never be able to perform many of the tasks of development which others his age are able to perform. ██████████ level of development is significantly delayed. At an age when most children are physically active, ██████████ is dependent upon others for all aspects of his being. The following is a list of some of the activities which ██████████ as a child who is 4 years old, should be able to achieve, but cannot due to the disabilities from which he suffers: (██████████ 1979).

Gross Motor Abilities

- Running,
- Tumbling,
- Skipping rope,
- Jumping, Tricycle riding,
- Kicking a ball.

Fine Motor Abilities

- Carrying a cup of water without spilling,
- Brushing one's teeth,
- Handling coins,
- Ability to draw shapes and use crayons.

Higher Order Cognition

Understanding concepts related to
Shape,
Size,
Color.

Language Development

Use of proper sentence structure,
Developing of Self Concept.

Development of Social Skills

Ability to interact with family and friends,
Learning cooperative and competitive play.

ability to function is noted by the following delays:

- He does not walk-he scoots around on his bottom,
- He does not talk. He can point to things he wants and shakes his head yes or no,
- He must eat "mashed" foods and needs to be fed by his caregiver,
- He has poor oral-motor coordination,
- He has no use of his right arm and leg and little use of his left side,
- He knows his parents and smiles at them,
- He has poor fine-motor control.

HEALTH CARE NEEDS

As one with numerous disabilities, [REDACTED] will face many health challenges and ongoing treatment. [REDACTED] physical disabilities include spastic quadriparesis, a neuromuscular problem affecting all four limbs. This disorder holds a host of consequences that will affect [REDACTED] development and ability to function. Some of these health issues include the following:

- Abnormal muscle tone
- Decreased range of motion
- Contractures
- Joint subluxation and/or dislocation
- Bone growth deformities
- Pain
- Scoliosis
- Osteoporosis.

In addition to the numerous orthopedic concerns which [REDACTED] will need to deal with throughout his life, he is also prone to other health problems within his body system. These include the following:

- Seizures
- Cognitive disability
- Gastroesophageal reflux
- Feeding/growth/nutrition
- Vision
- Bowels - Constipation
- Bladder and bowel control
- Aspiration
- Communication - speech disorder
- Lack of Mobility

[REDACTED]
[REDACTED] requires management and treatment of the effects of his health problems by multiple health professions. A "team" approach is required by all to help [REDACTED] deal with his daily needs and functioning. This team of health care professionals include the following:

MEDICAL/SURGICAL

- Physiatrist
- Orthopedist
- Neurologist

THERAPY

- Physical Therapist
- Occupational Therapist
- Speech Therapist
- Orthosists

DAILY FUNCTIONING

- Mother
- Home Health Aides/Personal Care Attendants

MEDICATIONS

- Spasticity management
- Antacids
- Stool softeners
- Respiratory
- Seizure Control

TESTING

- X-Rays
- Blood counts

[REDACTED]

TREATMENT

- Orthotics/Bracing
- Botox injections
- Scoliosis surgery
- Tendon lengthening procedures

The following is a list of Nursing Assessment Skills [REDACTED] has required due to his neurological deficits.

Neurological Status

[REDACTED] has required monitoring for seizural activity in the past. A seizure is a recurrent transient attack of disturbed brain functioning. A seizure is characterized by motor, sensory or psychic malfunction, or various combinations of these, with or without convulsions, and with or without any altered or complete loss of consciousness. He will require frequent monitoring of his condition due to the brain damage he suffers from.

Musculoskeletal Status

[REDACTED] is at risk for numerous complications of his muscles, bones and joints due to his altered mobility status. These complications include pain, contractures, and difficulty performing cares such as bathing, dressing and undressing, hygiene needs, and transfers. He requires a daily exercise/therapy program. He requires a stretching program and range of motion exercises. Range of Motion therapy should be performed by trained and experienced physical therapists to ensure that his mobility is maintained, yet to prevent injury to [REDACTED]. It is very important that he receive the proper therapy and exercise on a daily basis to prevent contractures, osteoporosis or hardening of the joints and other complications.

[REDACTED]

Orthopedic Status

[REDACTED] wears special braces on his feet, legs and arms which are prescribed by his rehabilitation physician. He requires a daily exercise/therapy program. It is very important that he receive the proper therapy and exercise to prevent contractures or hardening of the joints. [REDACTED] orthopedic status will need to be monitored closely to prevent and treat any problems which may occur, due to his decreased mobility.

[REDACTED] requires extensive orthopedic treatment and follow-up. He has required Botox/phenol injections on a regular basis. Medical notes indicate that he will likely require numerous orthopedic surgical procedures including the following:

- Left-sided femoral derotational osteotomy
- Right hip flexor, adductor and hamstring lengthening
- Right hip arthrogram
- Right pelvic osteomy.

LIFE CARE PLAN GOALS

The Life Care Plan outlined in this evaluation proposes the following goals for [REDACTED]. These goals are developed to provide him with adequate and safe care throughout his life span, thus preventing or treating many medical complications.

- ① [REDACTED] will have access to home care services in order to meet his health care needs. The setting in which the care is rendered will be one of care, love and support.
- ② [REDACTED] will have access to adequate medical supplies and equipment throughout his life. The access to proper supplies and equipment will assist to prevent health complications of [REDACTED].
- ③ [REDACTED] will have access to proper medication in order to control and prevent health complications from occurring. These medications will be prescribed as needed.
- ④ [REDACTED] will have access to medical services in order to monitor and treat his health care needs.
- ⑤ [REDACTED] will have access to therapy services to enhance and maintain his level of functioning and prevent complications.
- ⑥ [REDACTED] and his family will have access to a home which is modified to accommodate his physical needs.

HEALTH CARE COSTS

HOME CARE SERVICES

The following is a list of nursing and medical diagnoses which apply to [REDACTED] health condition

- Developmental delays secondary to Neurological impairment.
- Inability to perform age appropriate tasks due to developmental delays including mobility, feeding, playing.
- Observing for seizural activity.

[REDACTED] receives care and assistance with the following:

- Bathing.
- Dressing.
- Feeding.
- Medication administration as needed.
- Mobility.
- Therapy/Play.
- Transferring.
- Transportation.
- Overall Safety and monitoring of health status.

It is anticipated that [REDACTED] will require assistance with the above tasks throughout his life expectancy. [REDACTED] requires ongoing assistance and supervision. He requires care 24 hours per day and will throughout his life-expectancy. In addition, [REDACTED] will require pieces of adaptive equipment, supplies and medications, to assist him to be safe. The following sections summarize [REDACTED] health care needs and the cost to meet those needs.

██████████

██████████ will always require the services of a caregiver on a 24/7 basis. Currently, his mother, father and grandmother provide these services to him. This report assumes that ██████████ family will continue to provide the majority of his care and supervision until he reaches adulthood with the support of respite services.

RESPIRE CARE SERVICE (Age 4 to age 22)

The following shows the cost of respite/care services required by ██████████ throughout his childhood and teenage years. This care will assist his family as they provide care and supervision to him.

Home Health Aide

\$24.00/hour x 8 hours/day x 365 days.....\$ 70,080.00

LIVE IN AIDE SERVICES (Age 22 to age 71.3)

As an adult, ██████████ will require the services of a live-in aide to be safe and to maximize his functioning potential. A live-in aide is a trained individual who assists and supervises the client on a 24-hour basis. A main consideration of the live-in's job description is to provide safety for the client. The live-in's day is divided into increments as follows:

- 8 hours—Care for the client.
- 8 hours—Sleep and assist at night as needed.
- 8 hours—Personal time spent on the premises to supervise and assist the client as required. (The client may also attend school or work during these hours, when someone is available to help the client if needed.)

The following is the reasonable, market value of a live-in aide services:

\$250.00/day x 365 days/year \$ 91,250.00

██████████

The following is a list of equipment, supplies and medical services which ██████████ should have access to due to his disabilities:

EQUIPMENT

Item	Cost per Item	Replacement Ratio per years	Yearly Average Cost
• Mobility			
<u>Wheelchair</u>			
Manual with			
Adaptations	\$ 6,000.00	7	\$ 857.00
Wheelchair Maintenance	\$ 400.00	1	\$ 400.00
• Transportation (Handicapped modifications for vehicle)			
Van minus Car Cost	\$ 20,000.00	7	\$ 2,857.00
Van Modifications	\$ 13,500.00	7	\$ 1,929.00
Phone for Emergency			
Service	\$ 30.00	12/year	\$ 360.00
Maintenance	\$ 300.00	1	\$ 300.00
• Daily Functioning			
Stander	\$ 3,000.00	15	\$ 200.00
Adaptive Toys/Software	\$ 500.00	1	\$ 500.00
<u>Allowance</u>			
Communication Device	\$ 10,000.00	10	\$ 1,000.00
Bath Chair/Shower Chair	\$ 500.00	10	\$ 50.00
Hospital Bed	\$ 2,200.00	20	\$ 110.00
Tumble form Chair	\$ 386.00	10	\$ 39.00
Adaptive Braces	\$ 2,000.00	2	\$ 1,000.00
Average Yearly Cost			\$ 9,602.00



SUPPLIES

ITEM	COST PER ITEM	NUMBER PER YEAR	COST PER YEAR
•Bowel and Bladder Care			
Diapers	\$ 14.00/package	72	\$ 1,008.00
Gloves	\$ 14.00/box	24	\$ 336.00
Attends Wipes	\$ 5.00/box	36	\$ 180.00
Estimated Yearly Cost.....			\$ 1,524.00

MEDICATIONS

Currently, [REDACTED] is not prescribed any medications. However, in the future, he may require medications related to his disabilities.

MEDICAL SERVICES

[REDACTED] requires medical management and follow-up due to his disabilities. At minimum, this includes yearly evaluations by the following professionals:

- Pediatric Neurologist
- Orthopedics
- Physical Rehabilitation
- Pediatrician
- Dental Specialist

[REDACTED] will also require monitoring and treatment of his orthopedic and health status during his developmental years. Additional costs may be incurred for CT Scans, X-rays, MRI, Botoxin injections, EEGs, Dexa Bone Mineral Density Studies, serial casting and audiology and vision assessments.

The estimated yearly cost for basic, medical follow-up is as follows:

Average Yearly Cost\$ 20,000.00

SURGICAL PROCEDURES

A budget allowed for future surgeries is as follows:

.....\$ 100,000.00

SCHOOL AND THERAPY

Due to the disabilities from which [REDACTED] suffers, concerns exist for changes in his health condition. He is prone to the following complications.

- Spasticity/low tone
- Contractures
- Osteoporosis
- Pain
- Spine deformities
- Hip/Ankle deformities
- Skin impairments.

It is imperative that one with physical disabilities such as [REDACTED] suffers, have access to therapy monitoring, evaluation and direct one on one services. Therapy services are required more intensely during growth years and are decreased somewhat as an adult.

[REDACTED] will be attending a special education program to participate in activities and therapy. The following services are offered to [REDACTED] to meet needs related to the school setting.

- Special Education
- Regular Education Mainstream
- Physical Therapy
- Occupational Therapy
- Speech Therapy
- Adaptive Physical Education
- Social Services.

██████████

Due to ██████████ motor deficits, spasticity, cognitive and communication deficits, he requires ongoing therapy for continued rehabilitation as well as for maintenance of his condition. ██████████ will have access to occupational therapy, physical therapy and speech therapy through the school district through age 21. However, it is of importance to note that the school district provides services to meet ██████████ educationally necessary therapy needs only. ██████████ medically necessary therapy needs are not addressed, nor are they paid for, within the school district.

The following is the cost of conventional therapy services to meet medically necessary needs, as well as to maintain ██████████ level of progress throughout his developmental years. This includes the services of physical therapy, occupational therapy and speech therapy at \$200.00 per session and allows for an average of 1 session per week of each therapy discipline.

Average Yearly Cost.....\$ 31,200.00

[REDACTED]

HOUSING MODIFICATIONS

[REDACTED] and his caregivers should have access to a house with modifications to meet the needs of one with disabilities.

Some of the appropriate housing features, which are considered to be necessary to enhance the safety of the client, such as [REDACTED], as well as to enhance the ease of providing cares to [REDACTED] are as follows:

- An environment in which all cares and living space for [REDACTED] are provided on one level, including his bedroom and bathroom.
- Features to accommodate one in a wheelchair, including widened doorways and floor surfaces which are easy to maneuver on.
- A bathroom which is accessible to one in a wheelchair, which includes a roll-in shower, roll-under sink, a raised toilet and extra storage space for the supplies required.
- Ramps into and out of all doors.
- An attached garage.
- A room for a live-in aide.

It is essential for [REDACTED] safety and the safety of his caregivers, that he have an appropriate living environment to accommodate his needs. The estimated average cost to modify a home for one who is disabled will follow in an addendum.

[REDACTED]

COST SUMMARY

YEARLY COST ESTIMATE

The following is a summary of the yearly health care costs of

[REDACTED].

HOME CARE SERVICES

Age 4 to age 22\$ 70,080.00

Age 22 to age 71.3\$ 91,250.00

ADAPTIVE EQUIPMENT.....\$ 9,602.00

SUPPLIES\$ 1,524.00

MEDICAL SERVICES.....\$ 20,000.00

THERAPY (THROUGH AGE 21)\$ 31,200.00

[REDACTED]

LIFETIME COST ESTIMATE

According to a Governmental Life Expectancy Table, (See Appendix A), a 5 year old male will live to the age of approximately 69.8 or has 64.8 years of the life remaining. Based upon this information, the following is an estimate of the cost of [REDACTED] [REDACTED] lifetime health care needs. These figures have been rounded off, do not include inflationary increases, or the cost of treating health complications related to [REDACTED] injury.

HOME CARE SERVICES

RESPIRE CARE

Age now to age 22

\$70,080.00/year x 17 years\$ 1,191,360.00

Supervision Services required from age 5 to age 22

..... Provided by Parents

LIVE IN AIDE SERVICES

Age 22 to age 69.8

\$91,250.00/year x 47.8 years\$ 4,361,750.00

ADAPTIVE EQUIPMENT

\$9,602.00/year x 64.8 years\$ 622,210.00

MEDICAL SERVICES

\$20,000.00/year x 64.8 years\$ 1,296,000.00

FUTURE SURGERY

.....\$ 100,000.00

THERAPY SERVICES

Now to age 22

\$31,200.00/year x 17 years\$ 530,400.00

Estimated Lifetime Cost\$ 8,101,720.00

HOUSING MODIFICATIONS..... Cost to Follow

[REDACTED]

SUMMARY

[REDACTED] is a 4 year old boy who suffers from numerous health problems, including cerebral palsy and development delays.

Outlined in this evaluation is specific data regarding [REDACTED] health care needs. This evaluation also places a reasonable market value on the health care services which [REDACTED] should have access to throughout his lifetime.

If I can answer any questions for you, please do not hesitate to call me.

Very truly yours,

[REDACTED]

[REDACTED]

Health Care Cost Consultant

No. 94. Expectation of Life and Expected Deaths by Race, Sex, and Age: 2001

[See Appendix III]

Age (years)	Expectation of life in years ¹					Expected deaths per 1,000 alive at specified age ¹				
	White			Black		White			Black	
	Total	Male	Female	Male	Female	Total	Male	Female	Male	Female
At birth.....	77.2	75.0	80.2	68.8	75.5	8.84	8.21	5.08	15.43	12.47
1.....	76.7	74.5	79.6	68.6	75.4	0.52	0.50	0.42	0.68	0.72
2.....	75.7	73.5	78.7	67.7	74.5	0.54	0.50	0.28	0.52	0.39
3.....	74.8	72.6	77.7	66.7	73.5	0.28	0.27	0.20	0.40	0.33
4.....	73.8	71.6	76.7	65.8	72.5	0.21	0.23	0.17	0.33	0.24
5.....	72.8	70.6	75.7	64.8	71.5	0.17	0.17	0.15	0.29	0.18
6.....	71.8	69.6	74.7	63.8	70.5	0.16	0.16	0.14	0.24	0.18
7.....	70.8	68.6	73.7	62.8	69.6	0.14	0.14	0.14	0.18	0.17
8.....	69.8	67.6	72.7	61.8	68.6	0.14	0.15	0.12	0.24	0.15
9.....	68.8	66.6	71.7	60.8	67.6	0.15	0.14	0.12	0.27	0.21
10.....	67.9	65.6	70.8	59.8	66.6	0.15	0.16	0.11	0.29	0.15
11.....	66.9	64.7	69.8	58.9	65.6	0.16	0.16	0.12	0.30	0.17
12.....	65.9	63.7	68.8	57.9	64.6	0.16	0.19	0.14	0.29	0.19
13.....	64.9	62.7	67.8	56.9	63.6	0.21	0.25	0.16	0.35	0.18
14.....	63.9	61.7	66.8	55.9	62.6	0.27	0.32	0.20	0.38	0.30
15.....	62.9	60.7	65.8	54.9	61.7	0.38	0.43	0.25	0.64	0.27
16.....	61.9	59.7	64.8	54.0	60.7	0.54	0.66	0.39	0.89	0.30
17.....	61.0	58.8	63.8	53.0	59.7	0.69	0.89	0.44	1.25	0.43
18.....	60.0	57.8	62.9	52.1	58.7	0.83	1.13	0.41	1.76	0.50
19.....	59.1	56.9	61.9	51.2	57.8	0.92	1.30	0.43	1.98	0.55
20.....	58.1	56.0	60.9	50.3	56.8	0.91	1.25	0.43	2.10	0.60
21.....	57.2	55.0	60.0	49.4	55.9	1.00	1.38	0.45	2.34	0.68
22.....	56.2	54.1	59.0	48.5	54.9	0.95	1.30	0.40	2.41	0.89
23.....	55.3	53.2	58.0	47.6	53.9	0.85	1.24	0.43	2.42	0.81
24.....	54.3	52.2	57.0	46.7	52.9	0.95	1.23	0.46	2.50	0.71
25.....	53.4	51.3	56.1	45.8	52.0	0.82	1.18	0.47	2.57	0.83
26.....	52.4	50.4	55.1	45.0	51.0	0.95	1.24	0.46	2.52	0.81
27.....	51.5	49.4	54.1	44.1	50.1	0.95	1.20	0.50	2.46	0.97
28.....	50.5	48.5	53.1	43.2	49.1	1.00	1.28	0.52	2.48	1.06
29.....	49.6	47.6	52.2	42.3	48.2	0.99	1.22	0.53	2.51	1.18
30.....	48.6	46.6	51.2	41.4	47.2	1.04	1.28	0.60	2.67	1.08
31.....	47.7	45.7	50.2	40.5	46.3	1.03	1.27	0.57	2.43	1.13
32.....	46.7	44.7	49.2	39.6	45.3	1.11	1.32	0.60	2.69	1.38
33.....	45.8	43.8	48.3	38.7	44.4	1.21	1.48	0.72	2.87	1.59
34.....	44.8	42.9	47.3	37.8	43.5	1.29	1.58	0.77	2.92	1.71
35.....	43.9	41.9	46.3	36.9	42.5	1.41	1.70	0.83	3.23	1.86
36.....	43.0	41.0	45.4	36.0	41.6	1.49	1.76	0.93	3.15	1.97
37.....	42.0	40.1	44.4	35.1	40.7	1.85	1.98	1.04	3.74	2.00
38.....	41.1	39.1	43.5	34.3	39.8	1.81	2.15	1.15	3.85	2.42
39.....	40.2	38.2	42.5	33.4	38.9	1.92	2.23	1.27	4.22	2.57
40.....	39.2	37.3	41.6	32.5	38.0	2.07	2.45	1.35	4.30	2.94
41.....	38.3	36.4	40.6	31.7	37.1	2.17	2.53	1.39	4.79	2.97
42.....	37.4	35.5	39.7	30.8	36.2	2.38	2.75	1.52	5.24	3.40
43.....	36.5	34.6	38.7	30.0	35.3	2.61	3.04	1.69	5.78	3.77
44.....	35.6	33.7	37.8	29.2	34.4	2.83	3.30	1.85	6.33	3.99
45.....	34.7	32.8	36.9	28.4	33.6	3.05	3.52	2.00	7.01	4.17
46.....	33.8	31.9	36.0	27.5	32.7	3.24	3.77	2.10	7.60	4.49
47.....	32.9	31.0	35.0	26.6	31.8	3.58	4.23	2.32	8.33	4.62
48.....	32.0	30.2	34.1	26.0	31.0	3.80	4.58	2.40	8.95	5.13
49.....	31.1	29.3	33.2	25.2	30.2	4.13	4.83	2.60	9.81	5.85
50.....	30.3	28.4	32.3	24.4	29.3	4.41	5.20	2.86	10.60	6.16
51.....	29.4	27.6	31.4	23.7	28.5	4.82	5.42	3.05	10.96	6.14
52.....	28.5	26.7	30.5	23.0	27.7	5.08	5.81	3.48	12.16	6.93
53.....	27.7	25.9	29.6	22.2	26.9	5.37	6.15	3.79	12.42	7.51
54.....	26.8	25.0	28.7	21.5	26.1	6.14	7.18	4.32	14.16	8.29
55.....	26.0	24.2	27.8	20.8	25.3	6.11	7.09	4.30	14.05	8.15
56.....	25.1	23.4	26.9	20.1	24.5	7.10	8.28	5.08	15.38	9.46
57.....	24.3	22.6	26.1	19.4	23.7	7.75	8.94	5.63	17.43	10.15
58.....	23.5	21.8	25.2	18.7	23.0	8.77	10.24	6.39	19.36	11.08
59.....	22.7	21.0	24.4	18.1	22.2	8.96	10.33	6.58	19.82	11.78
60.....	21.9	20.2	23.5	17.5	21.5	10.15	12.06	7.49	20.55	11.99
61.....	21.1	19.4	22.7	16.8	20.7	10.67	12.88	8.07	22.79	13.44
62.....	20.3	18.7	21.9	16.2	20.0	12.07	14.20	9.04	24.23	14.94
63.....	19.6	18.0	21.1	15.6	19.3	13.16	15.90	9.99	25.35	15.70
64.....	18.8	17.2	20.3	15.0	18.6	14.33	18.96	10.78	27.68	17.53
65.....	18.1	16.5	19.5	14.4	17.9	15.58	18.55	11.78	29.97	17.98
70.....	14.8	13.2	15.7	11.7	14.7	23.67	28.73	18.49	41.64	26.15
75.....	11.5	10.2	12.3	9.3	11.7	36.75	45.27	29.29	61.00	39.89
80.....	8.8	7.7	9.3	7.3	9.2	57.07	68.53	48.43	85.82	58.79

¹ Based on the proportion of the cohort who are alive at the beginning of an indicated age interval who will die before reaching the end of that interval. For example, out of every 1,000 people alive and exactly 50 years old at the beginning of the period, between 4 and 5 (4.44) will die before reaching their 51st birthdays.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States, annual*; and *National Vital Statistics Report*, Vol. 52, No. 3, and unpublished data.